DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12446750 Three-Phase : 284/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 182 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.3310 kgm² Design : B Output [HP] 15 10 10 10 15 15 15 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 22.0 35.8/17.9 15.5 15.1 15.0 20.9 20.2 L. R. Amperes [A] 229/115 112 119 124 103 111 117 6.4x(Code LRC [A] 7.2x(Code J) 7.9x(Code K) 8.3x(Code K) 4.7x(Code E) 5.3x(Code F) 5.8x(Code G) G) No load current [A] 7.70 7.00 7.40 14.0/7.00 7.00 7.40 7.70 Rated speed [RPM] 1175 980 985 985 970 975 975 3.00 Slip [%] 2.08 2.00 1.50 1.50 2.50 2.50 Rated torque [kgfm] 9.26 7.41 7.37 7.37 11.2 11.2 11.2 Locked rotor torque [%] 229 270 300 330 170 200 220 Breakdown torque [%] 260 300 340 360 200 229 250 1.00 Service factor 1.25 1.25 1.25 1.25 1.15 1.15 Temperature rise 80 K Locked rotor time 36s (cold) 57s (cold) 52s (cold) 48s (cold) 27s (cold) 27s (cold) 27s (cold) 20s (hot) 32s (hot) 29s (hot) 27s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 59.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 89.0 89.1 89.1 91.0 90.2 90.2 Efficiency (%) 75% 91.7 89.4 89.5 89.5 90.2 90.2 91.0 100% 91.7 89.4 89.5 89.5 88.5 89.5 90.2 25% 50% 0.69 0.64 0.61 0.58 0.75 0.72 0.70 Power Factor 75% 0.80 0.76 0.73 0.71 0.83 0.81 0.80 100% 0.84 0.82 0.80 0.78 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 11.2 11.1 10.3 11.1 11.1 12.3 P2 (0,5;1,0) 6.9 9.1 9.0 9.0 10.0 9.0 8.3 P3 (0,25;1,0) 6.2 8.1 8.0 8.0 8.9 8.0 7.4 P4 (0,9;0,5) 4.3 5.6 5.6 5.6 6.2 5.6 5.2 Losses (%) P5 (0,5;0,5) 2.8 3.6 3.6 3.6 4.0 3.6 3.3 P6 (0,5;0,25) 2.6 1.8 2.4 2.4 2.4 2.4 2.2 P7 1.2 1.6 1.6 1.5 1.6 1.8 1.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 308 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 490 kgf Lubrication interval 20000 h 20000 h 11 g Lubricant amount 18 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 13/07/2025 1/9 Date

DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
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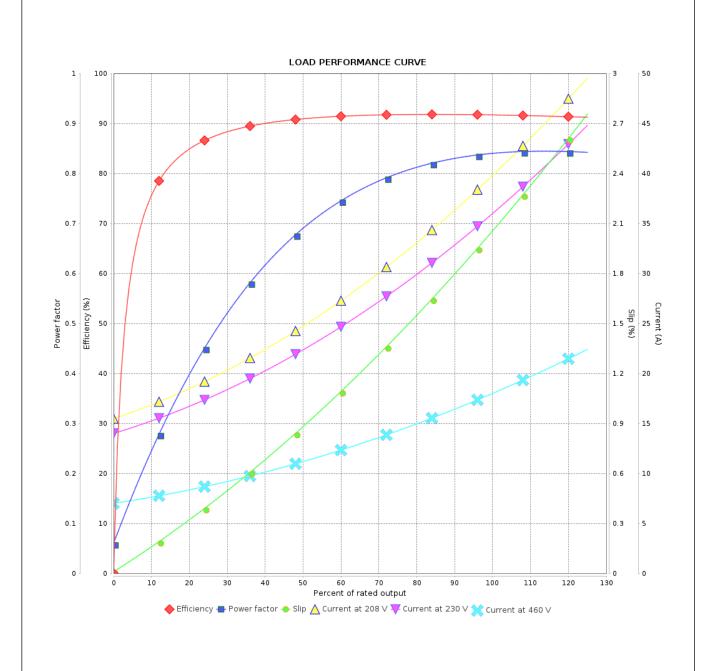
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance : 230/460 V 60 Hz 6P : 35.8/17.9 A Rated current Moment of inertia (J) : 0.3310 kgm² **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.26 kgfm Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage

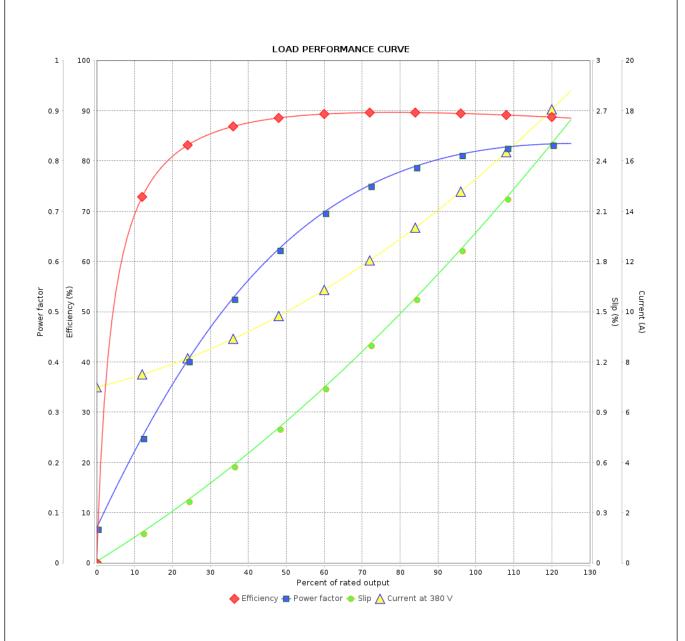


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 15.5 A	Moment of	inertia (J)	: 0.3310 kgm²	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 7.41 kgfm	Insulation class Service factor Temperature rise		: F ` ´	
Locked rotor torque	: 270 %			: 1.25	
Breakdown torque	: 300 %			: 80 K	
Rated speed	: 980 rpm	Design		: B	
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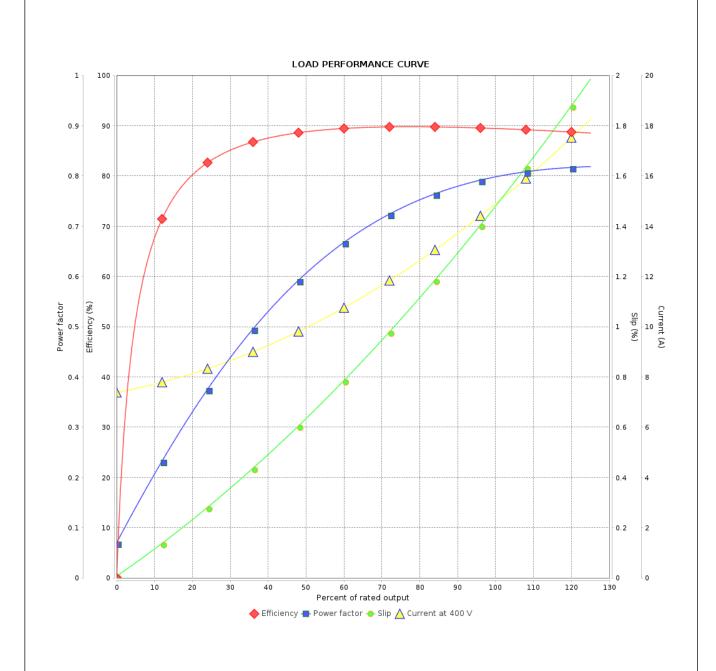
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 15.1 A	Moment of	of inertia (J)	: 0.3310 kgm²	
LRC	: 7.9	Duty cycle		: Cont.(S1)	
Rated torque	: 7.37 kgfm	Insulation class		: F	
Locked rotor torque	: 300 %	Service fa	actor	: 1.25	
Breakdown torque	: 340 %	Temperat	ure rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
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Rated speed	: 90	so rpm	Design		. B	
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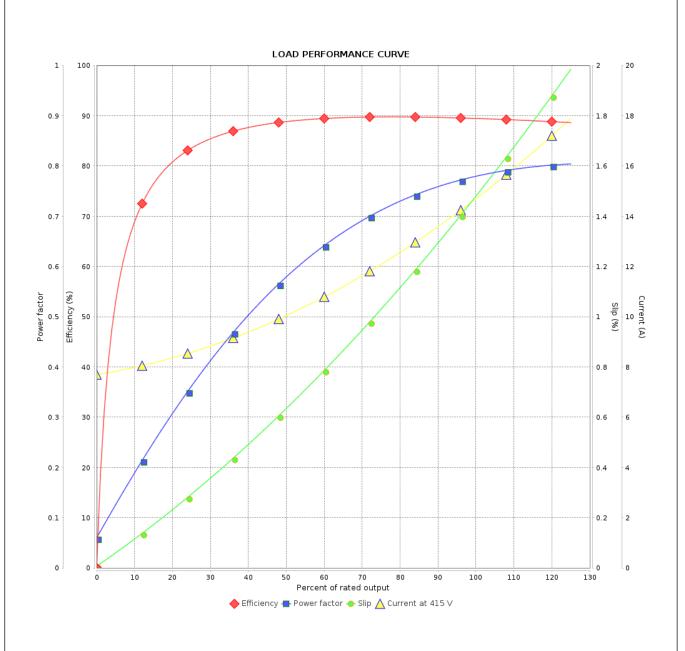


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.0 A : 8.3 : 7.37 kgfm : 330 % : 360 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle: Cont.(S1)Insulation class: FService factor: 1.25Temperature rise: 80 K	
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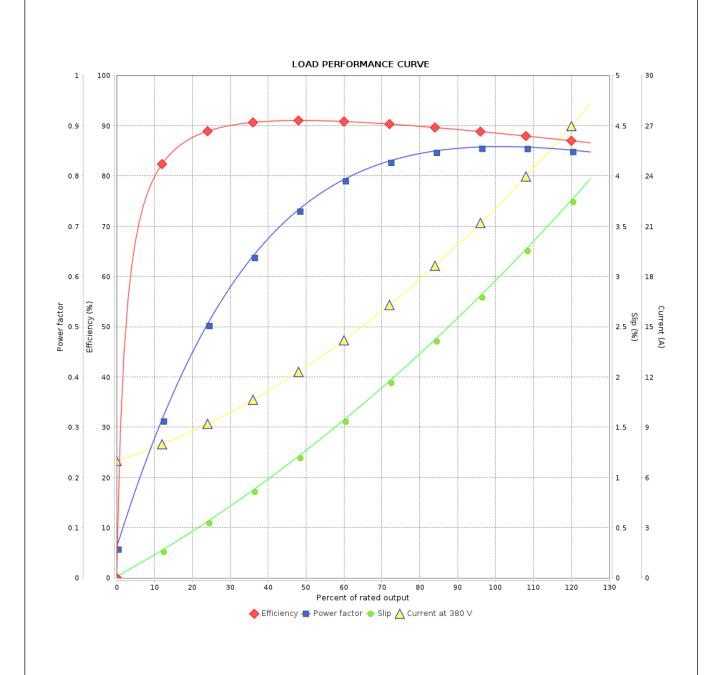
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 22.0 A	Moment of	of inertia (J)	: 0.3310 kgm²	
LRC		: 4.7	Duty cycle		: Cont.(S1)	
Rated torque		: 11.2 kgfm	Insulation class		: F	
Locked rotor tord	que	: 170 %	Service factor		: 1.00	
Breakdown torqu	ıe	: 200 %	Temperature rise		: 80 K	
Rated speed	tated speed : 970 rpm Design			: B		
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Three Phase Induction Motor - Squirrel Cage



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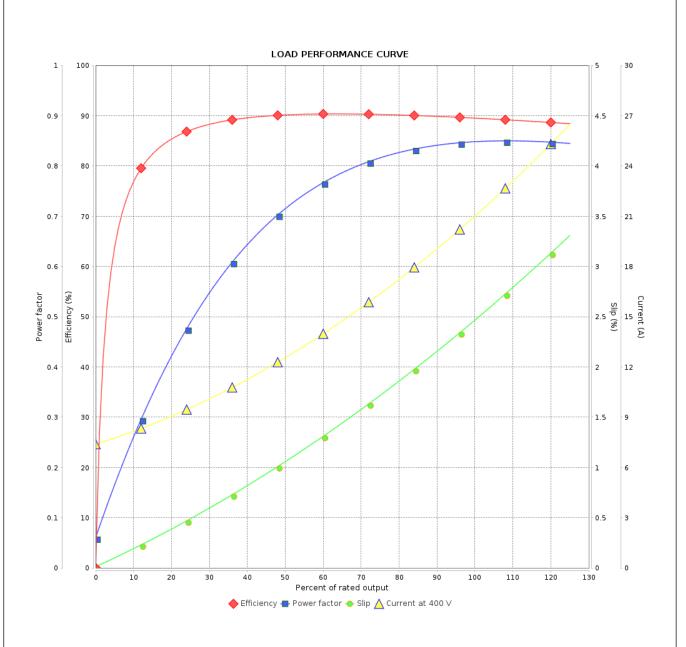
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446750



Performance : 400 V 50 Hz 6P IE2 : 20.9 A : 0.3310 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.3 Insulation class Rated torque : 11.2 kgfm : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 975 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

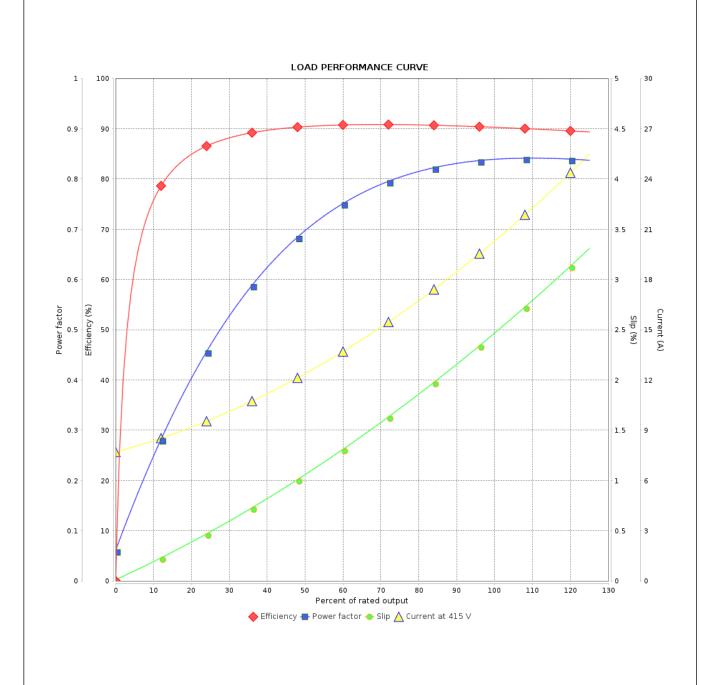
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12446750

Three-Phase



				,	
Performance	: 415 V 50 Hz 6P IE2				
Rated current	: 20.2 A	Moment o	f inertia (J)	: 0.3310 kgm²	
LRC	: 5.8	Duty cycle		Duty cycle : Cont.(S1)	
Rated torque	: 11.2 kgfm	Insulation class		:F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.15	
Breakdown torque	: 250 %	Temperati	ure rise	: 80 K	
Rated speed	: 975 rpm	Design		: B	
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